

FOST 20" 092E860

Oughta Cost System

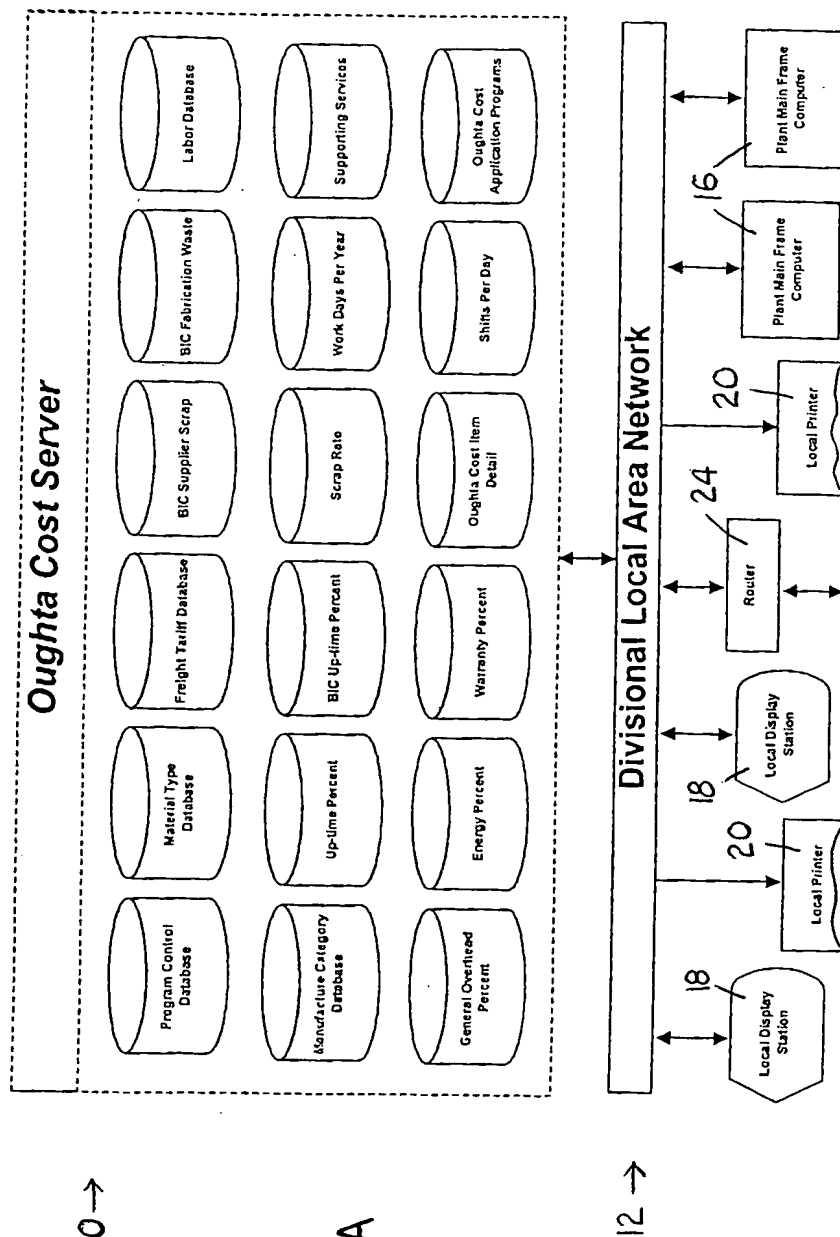


Fig 1A

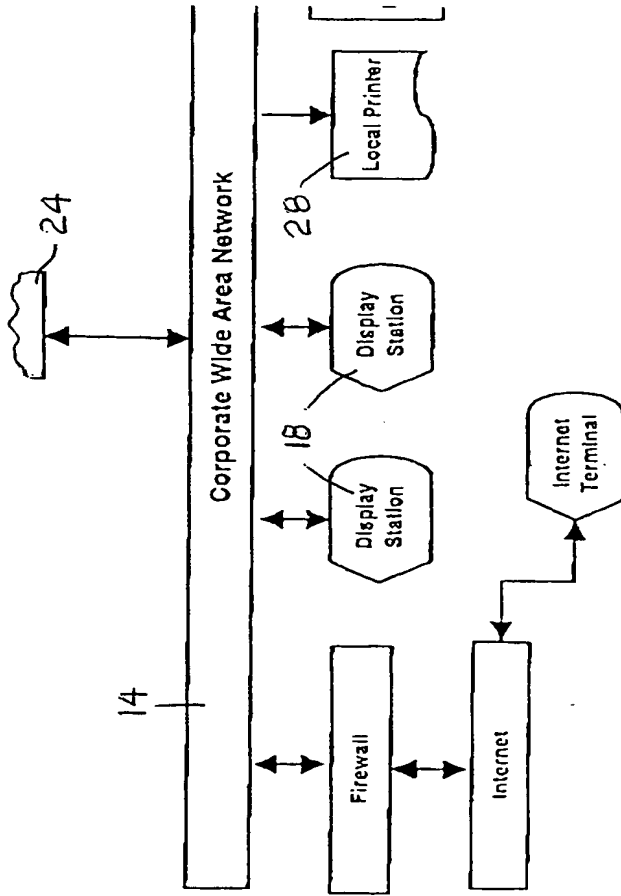


Fig 1B

Oughta Cost System

Oughta Cost Search | New Crankshaft

Existing Oughta Cost Studies

Program #	Description	Status	Owner
01122000001	New Crankshaft	Public	Ray Goss
10292000002	Machine New Head	Private	Bill Warren
01222001004	New Core Assembly Process	Public	Gary Denkiau

Name of New Oughta Cost Study

Copy An Existing Study

Create New Study

Open Study

Reports

Exit

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FIG 2

FOOT 20" E092E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Cost Components

- Material
- Capital
- Labor
- Manufacturing
- Overhead
- Reports
- Home
- Exit

Material Type

Supplier Scrap:

Fabrication Waste:

Steel Forging

Fine Blanked Steel

Copper

Tin

Plastic

Die Cast Aluminum

Brass Bar Stock

Plastic

Bronze Bar Stock

Nitrelloy Steel Bar

Freight

Origin

Destination

Mode

Light Needed

Material Cost

Post

Returnable Containers

Dunnage

Rates/CWT

Materials Table

Material Code	Unit of Measure	Category	Description

Comments

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FIG 3

FOST 710" E0922E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Material Type

Supplier Scrap

Fabrication Waste:

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

5.60%

5.70%

5.80%

5.90%

Freight

Origin

Destination

Mode

Weight Needed

Material Cost

Cost

WT

Returnable Containers

Dunnage

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

Materials Table

Material Code	Unit of Measure	Category	Description
1-112-A	Ton	Forging	Steel Forging

Comments

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FIG 4

FOSTCO" E092E860

Material

Program # 02010100001 | Component: Shaft | Component # 100 | Status: Public

Material Type

Supplier Scrap:

Fabrication Waste:

Steel Forging

5.00%

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

Freight

Origin

Destination

Mode

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

0%

Light Needed

Serial Cost

Lost

Returnable Containers

Dunnage

Rates/CWT

Materials Table

Material Code	Unit of Measure	Category	Description
1-112-A	Ton	Forging	Steel Forging

Comments

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FIG 5

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Material		Program # 02010100001 Component: Shaft Component # 100 Status: Public																
<div> <div>Material Type</div> <div>Steel Forging</div> </div> <div> <div>Supplier Scrap:</div> <div>5.00%</div> </div> <div> <div>Fabrication Waste:</div> <div>5.00%</div> </div>																		
<div> <div>Freight</div> <div> <div>Origin</div> <div>New York</div> </div> <div> <div>Destination</div> <div>California</div> </div> <div> <div>Mode</div> <div>Truck Load</div> <div>Less Than Truck Load</div> <div>Rail</div> <div>Boat</div> </div> <div> <div>Total Weight Needed</div> <div>111</div> </div> <div> <div>Total Material Cost</div> <div>\$</div> </div> <div> <div>Freight Cost</div> <div>\$</div> </div> <div> <div>Rates/CWT</div> <div>\$</div> </div> <div> <div>Returnable Containers</div> <div></div> </div> <div> <div>Dunnage</div> <div></div> </div> </div>																		
<div> <div>Materials Table</div> <table border="1"> <thead> <tr> <th>Material Code</th> <th>Unit of Measure</th> <th>Category</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1-112-A</td> <td>Ton</td> <td>Forging</td> <td>Steel Forging</td> </tr> </tbody> </table> </div>											Material Code	Unit of Measure	Category	Description	1-112-A	Ton	Forging	Steel Forging
Material Code	Unit of Measure	Category	Description															
1-112-A	Ton	Forging	Steel Forging															
<div> <div>Comments</div> <div></div> </div>																		

FIG 6

Material		Program # 02010100001 Component: Shaft Component # 100 Status: Public			
<input checked="" type="checkbox"/> Cost Components -Material -Capital -Labor -Manufacturing -Overhead Reports Home Exit	Material Type	Steel Forging			
	Supplier Scrap:	5.00%			
	Fabrication Waste:	5.00%			
	Freight Origin <input type="text" value="New York"/> Total Weight Needed <input type="text" value="111"/> Returnable Containers <input type="text" value="Y"/> Destination <input type="text" value="California"/> Total Material Cost <input type="text" value="\$51.06"/> Dunnage Mode <input type="text" value="Truck Load"/> Freight Cost <input type="text" value="\$1.11"/> Rates/CWT <input type="text" value="\$1.00"/>				
Materials Table					
Material Code	Unit of Measure	Category	Description		
1-112-A	Ton	Forging	Steel Forging		
		Crankshaft for 2003 model year V8			
Comments This study has only one component.					

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FIG 7

Labor

Cost Components

-Material

-Capital

-Labor-

-Manufacturing

-Overhear-

Sports

time

Save & Exit

Supporting Services:	0%	Region:	North
Machining Type:	Transfer Line	Skill Level:	Standard Machining
Additional Labor \$: 0.00			

Employee Type	Number Required	Operation # (OP #)	Default Labor Rate	Employee Benefit (% of Labor Rate)	Employee Benefits
<u>DIRECT LABOR</u>					
Machine Operators	3	10	\$11.00	50 %	\$5.50
Machine Operators	3	20	\$11.00	%	\$3.50
Assembly Test	0		\$9.00	%	\$3.50
<u>INDIRECT LABOR</u>					
Material Handling	5	10	\$8.00	%	\$4.00
Shipping	2	30	\$11.00	%	\$4.00
Receiving	2	05	\$8.00	%	\$4.00
Line Stocking	1	10	\$7.00	%	\$3.50
Material Scheduler	25		\$6.00	%	\$3.00
Inspection	25	20	\$8.00	%	\$4.00
Quality	25	20	\$9.00	%	\$4.50
Supervisor	1		\$14.00	%	\$4.00

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TEST 20" CODE 860

Capital

Cost Components

- Material
- Capital
- Labor

Manufacturing

- Overhead

ReportsHome

Program # 01122000003 | Component: Shaft | Component # 123456 | Status: Public

General Capital

Building Expansion

Qty1

Building

30 yrs

\$200,000

Add General Item

Machining Capital

Qty	Op #	Description	Category	Capital \$	Capital Depreciation	Tooling \$	Tooling Depreciation
1	10	Rough Machining	Machine Tool	\$25,000	5 yrs		
	10	Cutters	Tooling			\$800	1 yrs

Add Machining Item

Comments

Cancel

Help

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FIG 9

POST 20" CODE 860

Manufacturing

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Transfer Line

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

50%

51%

52%

53%

54%

100%

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

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FIG 10

Manufacturing

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Program # 01122000001 | Component: Shift | Component # 123456 | Status: Public

Manufacturing Category

Transfer Line

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

50%

70%

75%

80%

85%

90%

95%

100%

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

FIG 11

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FO9T70" E092E860

Manufacturing

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Transfer Line

50%

90%

5.00%

5.10%

5.20%

5.30%

5.40%

5.50%

5.60%

5.70%

5.80%

5.90%

Uptime Current

Uptime World Class

Scrap Rate

Volume

Work Days per Year

Work Shifts per Day

Work Hours per Shift

Component

Manufacturing Utilization

per

Manufacturing Time

Manufacturing Time

Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
<input type="checkbox"/> Yes <input type="checkbox"/> No					

Add Manufacturing Time Element

FIG 12

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<div style="display: flex; justify-content: space-between;"> Manufacturing Program # 01122000001 Component: Shaft Component # 123456 Status: Public </div>																									
<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>Cost Components</div> </div> <div style="margin-top: 5px;"> <div>-Material</div> <div>-Capital</div> <div>-Labor</div> <div>-Manufacturing</div> <div>-Overhead</div> </div> <div> <div>Reports</div> <div>Home</div> </div> </div> <div style="width: 85%;"> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div> <div>Manufacturing Category</div> <div style="border: 1px solid black; padding: 2px 5px;">Transfer Line</div> </div> <div> <div>Uptime Current</div> <div style="border: 1px solid black; padding: 2px 5px;">50%</div> </div> <div> <div>Uptime World Class</div> <div style="border: 1px solid black; padding: 2px 5px;">90%</div> </div> <div> <div>Scrap Rate</div> <div style="border: 1px solid black; padding: 2px 5px;">0%</div> </div> <div> <div>Volume</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px;">20,000</div> <div style="margin: 0 5px;">per</div> <div style="border: 1px solid black; padding: 2px 5px;">Year</div> </div> </div> </div> </div> </div>	<div style="margin-bottom: 20px;"> <div style="display: flex; justify-content: space-between;"> <div>Available Manufacturing Time</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Work Days per Year</div> <div style="border: 1px solid black; padding: 2px 5px;">240</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Work Shifts per Day</div> <div style="border: 1px solid black; padding: 2px 5px;">2</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Work Hours per Shift</div> <div style="border: 1px solid black; padding: 2px 5px;">8</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Component</div> <div style="border: 1px solid black; padding: 2px 5px;"></div> </div> <div>Manufacturing Utilization</div> </div>																								
<div style="display: flex; justify-content: space-between;"> <div>Manufacturing Time</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Requires Manpower</th> <th style="width: 20%;">Equipment #</th> <th style="width: 15%;">Op #</th> <th style="width: 15%;">Unit of Measure</th> <th style="width: 15%;">Time</th> <th style="width: 20%;">Calculated Capacity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </td> <td style="border: 1px solid black; padding: 2px 5px;">12345</td> <td style="border: 1px solid black; padding: 2px 5px;">05</td> <td style="border: 1px solid black; padding: 2px 5px;"> <div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>sec min hour</div> </div> </td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> </tr> <tr> <td style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> </tr> <tr> <td style="text-align: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> <td style="border: 1px solid black; padding: 2px 5px;"></td> </tr> </tbody> </table>		Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12345	05	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>sec min hour</div> </div>			<input type="checkbox"/> Yes <input type="checkbox"/> No						<input type="checkbox"/> Yes <input type="checkbox"/> No					
Requires Manpower	Equipment #	Op #	Unit of Measure	Time	Calculated Capacity																				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12345	05	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: black; margin-right: 5px;"></div> <div>sec min hour</div> </div>																						
<input type="checkbox"/> Yes <input type="checkbox"/> No																									
<input type="checkbox"/> Yes <input type="checkbox"/> No																									
<div style="border: 1px solid black; padding: 5px; display: inline-block;">Add Manufacturing Time Element</div>																									

FIG 13

Manufacturing		Program # 01122000001 Component: Shaft Component # 123456 Status: Public	
<input checked="" type="checkbox"/> x	Transfer Line		
Cost Components	Manufacturing Category		
-Material	Uptime Current	50%	
-Capital	Uptime World Class	90%	
-Labor	Scrap Rate	0%	
-Manufacturing Overhead	Volume	20,000	per Year
Reports	Available Manufacturing Time		
Time	Work Days per Year	240	
	Work Shifts per Day	2	
	Work Hours per Shift	8	
	Component Manufacturing Utilization	50%	

Manufacturing Time				
Requires Manpower	Equipment #	Op #	Unit of Measure	Calculated Capacity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	123456	05	sec	86,400
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	246810	10	sec	86,400
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	357159	20	min	86,400

Add Manufacturing Time Element

D5D45

FIG 14

OverHead

Cost Components

- Material
- Capital
- Labor
- Manufacturing
- Overhead

Reports

Exit

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public
Appreciation

Depreciation						
Asset Class	# of Items	Total Capital	Depreciation Years	Annual Depreciation	Component Rate	Annual Depreciation Contributed by Component
Building	1	\$200,000	30	\$6,667	50 %	\$3,334
Tooling	10	\$800	1	\$800	100 %	\$800
Machine Tools	1	\$25,000	5	\$5,000	70 %	\$3,500
					%	
TOTALS		\$225,800		\$12,467		\$7,634

Startup Costs

	\$20,000
--	----------

Engineering Support

\$10,000

Warranty Cost (% of Sales)

0.1% ▴

Additional Expenses

Cost Category	Cost Desc	Cost (\$)	Occurrence
	0.2%		
	0.3%		
	0.4%		
	0.5%		
Add Cost Category			

Add Cost Category

Comments

FIG 15

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OverHead

Cost Components
 -Material
 -Capital
 -Labor
 -Manufacturing
 -Overhead
 Reports
 Exit

Program # 01122000001 | Component: Shaft | Component # 123456 | Status: Public

Depreciation

Asset Class	# of Items	Total Capital	Depreciation Years	Annual Depreciation	Component Rate	Annual Depreciation Contributed by Component
Building	1	\$200,000	30	\$6,667	50 %	\$3,334
Tooling	10	\$800	1	\$800	100 %	\$800
Machine Tools	1	\$25,000	5	\$5,000	70 %	\$3,500
TOTALS		\$225,800		\$12,467		\$7,634

Startup Costs

\$20,000

Engineering Support

\$10,000

Warranty Cost (% of Sales)

0.1%

Additional Expenses

Cost Category	Cost Description	Cost (\$)	Occurrence
Pershaible Tooling			
MRO			
General Overhead			
Energy			
Other			

Comments

FIG 16

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Reports

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

☒ Standard Report Package

☒ Material

☐ Labor

☐ Capital

☐ Manufacturing

☐ Overhead

☒ Summary

Program:

Program Description:

Component Control #:

Component:

Selected Items:

Select

1201200001

10292000002

01222001004

02102001001

Cancel

Help

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FIG 17

Reports

Cost Components

-Material

-Capital

-Labor

-Manufacturing

-Overhead

Reports

Home

Exit

☒ Standard Report Package

☒ Material

☐ Labor

☐ Capital

☒ Manufacturing

☐ Overhead

☒ Summary

Print Preview

Print

Export to Access

Export to Excel

Inquiries

Select

Program:

Program Description:

Component Control #:

Component:

Selected Items:

12012000001

New Crankshaft

123456

Shaft

01122000001 New Crankshaft

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FIG 18